

ABSTRACT

A load sensor includes a substrate, a glass layer provided on the substrate, a wiring provided on the glass layer, an adjusting layer provided on the glass layer, and a strain-sensitive resistor element provided on the adjusting layer and connected to the wiring. A thermal expansion coefficient of the adjusting layer is closer to that of the strain-sensitive resistor element than that of the glass layer. In this load sensor, a stress remaining inside the resistor element is reduced, and the change over time of the resistance of the element is accordingly suppressed. Therefore, a single kind of the resistor element can be formed on substrates having respective thermal expansion coefficients, shapes, and thicknesses, thereby providing various load sensors having respective specifications.